

U.S. Patent Application Serial No. 10/691,960
Response filed August 31, 2005
Reply to OA dated July 6, 2005

AMENDMENTS TO THE SPECIFICATION:

Amend the specification as follows:

Please replace the heading at page 1, line 7, with the following rewritten heading:

DESCRIPTION OF THE BACKGR[[A]]OUND ART

Please replace the paragraph beginning at page 1, line 8, with the following rewritten paragraph:

In the conventional art, as a hydraulic circuit of this kind of hydraulically driven vehicle, there is a hydraulic circuit as shown in Fig. 8 structured such that a hydraulic pump for a working machine is driven by a part of an output from an engine, a working machine cylinder is operated via the hydraulic circuit for the working machine, the hydraulic pump is driven by the rest portion of the output from the engine, and a variable displacement hydraulic motor is rotated via a main circuit by a pressure oil generated in the hydraulic pump.

Please replace the paragraph beginning at page 1, line 17, with the following rewritten paragraph:

In the hydraulic circuit, a part of an output from an engine 51 drives a hydraulic pump 52 for a working machine and is applied to a working machine cylinder 54 via a hydraulic circuit 53 for a

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working machine, the ~~[[rest]]~~ other portion of the output from the engine 51 drives a control pump 55 and a hydraulic pump 56, and ~~[[a pressure]]~~ pressurized oil generated in the hydraulic pump 56 rotates a variable displacement hydraulic motor 59 through main circuits 57 and 58 so as to apply a driving force to the vehicle.

Please replace the paragraph bridging pages 5 and 6 (line 16, page 5 through line 5, page 6), with the following rewritten paragraph:

In accordance with the hydraulically driven vehicle ~~on the basis of claim 1~~ mentioned above, since the maximum driving force of the hydraulic motor 2 is set changeable, it is possible to prevent a vehicle tire from slipping by adjusting the maximum driving force on the low friction road surface such as the soft road surface, the ~~oversnow~~ snow-filled road surface or the like. Accordingly, a stable work can be carried out. Further, in the case of having a working machine 27, when carrying out the work by the working machine 27, it is possible to change a resultant force of a driving force (a pressing force of a bucket of the working machine in a horizontal direction) and a working machine force (an ascending force of the bucket of the working machine in a vertical direction) by adjusting the driving force. Accordingly, it is possible to apply the resultant force in correspondence to a subject to be excavated, and it is possible to carry out a reliable work.

Please replace the paragraph beginning at page 6, line 6, with the following rewritten paragraph:

In accordance with ~~claim 2~~ of the present invention, there is provided a hydraulically driven vehicle, characterized in that the hydraulic motor 2 is a variable displacement hydraulic motor, and a maximum tilt angle of the hydraulic motor 2 is set changeable.

Please replace the paragraph beginning at page 6, line 11, with the following rewritten paragraph:

In accordance with the hydraulically driven vehicle ~~on the basis of claim 2 mentioned above~~ of the invention, it is possible to change the maximum driving force of the hydraulic motor 2 by changing the maximum tilt angle of the hydraulic motor 2, whereby it is possible to improve a reliability with regard to changing the maximum driving force. Accordingly, it is possible to stably prevent the tire slip on the low friction road surface such as the soft road surface, the ~~oversnow~~ snow-filled road surface or the like.

Please replace the paragraph bridging pages 6 and 7 (line 23, page 6 through line 5, page 7), with the following rewritten paragraph:

In accordance with the hydraulically driven vehicle ~~on the basis of claim 3~~ of the invention mentioned above, since the maximum tilt angle is adjusted in accordance with the electronic control, it is possible to securely, continuously and delicately adjust the maximum tilt angle. Further, since

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this adjustment is not based on the hydraulic control method, a simple circuit structure can be achieved, and it is possible to achieve a reduction in cost.

Please replace the paragraph beginning at page 7, line 6, with the following rewritten paragraph:

In accordance with ~~claim 4~~ of the present invention, there is provided a hydraulically driven vehicle, characterized in that a minimum tilt angle of the hydraulic motor 2 is adjusted in accordance with an electronic control.

Please replace the paragraph beginning at page 7, line 10, with the following rewritten paragraph:

In accordance with the hydraulically driven vehicle ~~on the basis of claim 4 of the invention~~ mentioned above, since the minimum tilt angle of the hydraulic motor 2 is adjusted, it is possible to change a minimum displacement value of the hydraulic motor 2, and it is possible to control a maximum vehicle speed. Accordingly, it is possible to obtain the vehicle speed in correspondence to the working condition, and in the case of having the working machine 27, when ascending the working machine 27 at a high speed, it is possible to make the vehicle speed low, and it is possible to correspond to the work in the narrow space. Further, since the minimum tilt angle is adjusted in accordance with the electronic control, it is possible to securely, continuously and delicately adjust the minimum tilt angle. Further, since this adjustment is not based on the hydraulic control method,

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a simple circuit structure can be achieved, and it is possible to achieve a reduction in cost.

Please replace the paragraph beginning at page 8, line 6, with the following rewritten paragraph:

In accordance with the hydraulically driven vehicle ~~on the basis of claim 5~~ of the invention mentioned above, since there is provided the selecting means for selecting whether or not the change of the hydraulic motor 2 (the change in the maximum tilt angle and the minimum tilt angle) is executed, an operator can optionally change the maximum tilt angle and change the minimum tilt angle, and it is possible to carry out an operation in which the vehicle speed ascends up to the maximum vehicle speed at the same time of ascending the working machine at the maximum ascending speed. Accordingly, it is possible to carry out an operation (work) in correspondence to a preference of the operator, a working condition or the like, and it is possible to achieve an improvement of a working efficiency.